

ANTENNA LINE MATRIX: INDOOR ONLY (RP-SMA)

Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0° Unless Noted
AP-ANT-1B Direct-Mount Omni	2.4 - 2.5 GHz	3.8 dBi	Vertical, Linear	E-Plane – 50° H-Plane - 360°	1.54" x 0.75" x 5.00"	2 watts	14° F to 131° F	110 110 110 110 110 110 110 110 110 110
	4.900 – 5.875 GHz	5.8 dBi	Impedence - 50 Ω	-10° C to +55° C	150 00 150			
AP-ANT-2 Ceiling Mount Omni	2.4-2.5 GHz	6.0 dBi	Vertical, Linear Linear Array RP-SMA	E-Plane – 18° H-Plane - 360°	10.86" x 1.06" 27.6 x 2.7 cm	50 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to 158° F -40° C to +70° C	150 0 0 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AP-ANT-3 Bidirectional Patch	2.4-2.5 GHz	5.0 dBi	Vertical, Linear Linear Patch RP-SMA 36" pigtail	E-Plane – 40° H-Plane - 60° Bidirectional	2.72" x 2.52" x 0.79" 6.9 x 6.4 x 2 cm	50 watts Impedence - 50 Ω VSWR <1.8:1	-40° F to 158° F -40° C to +70° C	150 0 0 0 150 0 0 0 0 0 0 0 0 0 0 0 0 0



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AP-ANT-4 High-Gain Patch	2.4-2.5 GHz	9.0 dBi	Linear Air-loaded patch RP-SMA 36" pigtail	E-Plane – 60° H-Plane - 60°	5.08" x 5.08" x 0.87" 12.9 x 12.9 x 2.22 cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	150 0 0 150 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AP-ANT-5 Low-Gain Downtilt Omni	2.4-2.5 GHz	3.5 dBi	Downtilt Omnidirectional patch RP-SMA 36" pigtail	E-Plane – 50° H-Plane - 360°	4.09" x 4.09" x 0.87" 10.4 x 10.4 x 2.2cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	E-Plane Direction of Maximum Gain at 180°
AP-ANT-13B Downtilt Omni	2.4-2.5 GHz	4.4 dBi	Vertical, Linear	E-Plane – 60°	2.16" x 2.16" x 0.63"	2 watts	-40° F to +158° F	136 -140 -1466 -140 -1466 -140 -130 -130 -130 -130 -130 -130 -130 -13
	4.9-5.9 GHz	3.3 dBi	RP-SMA 30" pigtail	H-Plane - 360°	5.5 x 5.5 x 1.6cm	Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	156 - 150 - 156 - 150 -



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AP-ANT-14 Dual-Band Downtilt Diversity Omni	2.400 GHz 2.450 GHz 2.500 GHz	3.67 dBi 2.55 dBi 2.83 dBi	Downtilt Vertical, Linear	E-Plane – 57-61° H-Plane - 360°	6.16" x 0.89" x 3.66"	-40° F to +158° F		
	4.900 GHz 5.150 GHz 5.550 GHz 5.990 GHz	5.14 dBi 4.10 dBi 3.32 dBi 3.31 dBi	RP-SMA 2x36" pigtails	E-Plane – 55-59° H-Plane – 360°	15.65 x 2.26 x 9.3cm	Impedence - 50 Ω VSWR <2.0:1	-40° C to +70° C	
AP-ANT-16 Downtilt Omni MIMO 3-Element Array	2.4-2.5 GHz	3.9 dBi	Vertical Downtilt	E-Plane – 60°	12.13" x 3.62" x 0.86"	2 watts	-40° F to +158° F	155 - 165 -
	4.9-5.9 GHz	4.7 dBi	3x RP-SMA 3x 36" pigtails	H-Plane – 360°	30.82 x 9.2 x 2.2 cm	Impedence - 50 Ω VSWR <2.0:1	-40° C to +70° C	186 -188 -185 -185 -185 -185 -185 -185 -185



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AP-ANT-6 135 Degree Sector	2.4-2.5 GHz	5.0 dBi	Linear RP-SMA 36" pigtail	E-Plane – 55° H-Plane – 135°	6" x 3" x 2" 15.2 x 7.6 x 5 cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	3367 336 367 3367 3367 337 337 337 337 3
AP-ANT-7 90 Degree Sector	2.4-2.5 GHz	12.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 10° H-Plane – 90°	3" x 26" x 1" 7.6 x 66 x 2.5 cm	50 watts Impedence - 50 Ω VSWR <2.0:1	-22° F to +149° F -30° C to +65° C	230° 00° 230° 00° 220° 00° 220° 00° 220° 22
AP-ANT-8 Ceiling Mount Omni	2.4-2.5 GHz	5.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 30° H-Plane – 360°	11.5" x 7.1" x 0.98" 29.2 x 18 x 2.5 cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	E-Plane Direction of Maximum Gain at 90° & 270°
AP-ANT-9 90 Degree Sector	2.4-2.5 GHz	7.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 60° H-Plane – 90°	4.6" x 2.6" x 0.99" 11.8 x 6.8 x 2.5 cm	25 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	210° 210° 210° 210° 210° 210° 210° 210°



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AP-ANT-10 Ceiling Mount Omni	5.150 - 5.875 GHz	6.0 dBi	Vertical, Linear RP-SMA 36" pigtail	E-Plane – 18° H-Plane - 360°	11.5" x 1.0" 29.2 x 2.54cm	10 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	270
AP-ANT-12 High-Gain Directional	5.150 - 5.350 GHz	14.0 dBi	Vertical, Linear	E-Plane – 30°	4.02" x 4.02" x 1.38"	10 watts Impedence - 50 Ω	-40° F to +158° F	3007 0° 3007 00° 3007 00° 300 00° 30° 30° 30° 30° 30° 30° 30°
	5.470 - 5.875 GHz	13.25 dBi	RP-SMA 36" pigtail	H-Plane - 30°	10.2 x 10.2 x 3.5cm	VSWR <2.0:1	-40° C to +70° C	240° 150° 150° 240° 150° 150°
AP-ANT-15 120 Degree Sector Dual-Band	2.4-2.5 GHz	5.0 dBi	Vertical, Linear	E-Plane – 65° H-Plane - 120°	2.16" x 5.16" x 1.38"	5 watts	-40° F to +158° F	
0 0	4.900 – 5.875 GHz	5.0 dBi	RP-SMA 36" pigtail	E-Plane – 65° H-Plane - 120°	5.49 x 13.11 x 3.51cm	Impedence - 50Ω VSWR <2.0:1	-40° C to +70° C	



Wodel	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0º Unless Noted
AP-ANT-17 120 Degree Sector Dual-Band MIMO	2.4-2.5 GHz 6.0	6.0 dBi	Vertical, Linear	E-Plane – 65° H-Plane - 120°	7.9" x 7.9" x 1.26"	50 watts	-40° F to +158° F	15 10 20 245 240 1150 15 10 15 10 15 10 15 10 15 10 15 10 15 15 10 15 15 15 15 15 15 15 15 15 15 15 15 15
		5.0 dBi	3x RP-SMA 3x 30" pigtail	E-Plane – 75° H-Plane - 150°	7.9" x 7.9" x 1.26" 20.1 x 20.1 x 3.2 cm	Impedence - 50Ω VSWR <1.7:1	-40° C to +70° C	75 10 235 365 155 155 155 155 155 155 155 155 155 1
AP-ANT-18 60 Degree Sector Dual-Band MIMO	2.4-2.5 GHz	7.5 dBi	Linear, Vertical	E-Plane – 60° H-Plane - 60°	- 7.87" x 7.87" x 1.30"	20 watts	-40° F to +158° F	
	5.15 – 5.875 GHz	7.5 dBi	Dual slant +/-45 degrees	E-Plane – 60° H-Plane - 60°	200 x 200 x 33 mm	Impedence - 50Ω VSWR <1.8:1	-40° C to +70° C	



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AP-ANT-19 Dual-Band Omni	2.4-2.5 GHz 5.15 – 5.875 GHz	3.0 dBi	Vertical Omnidirectional coverage RP-SMA 36" pigtail	E-Plane – 50° H-Plane - 360° E-Plane – 20° H-Plane - 360°	Height: 245 mm (9.6 in) Weight: 140 kg (0.30 lb)	10 watts Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	110 165 1



Model	Band	Gain	Polarization & Element Type	Beamwidth	Dimensions	Max Input Power	Operating Temperature	Antenna Pattern (2450Mhz and/or 5500Mhz) Direction of Maximum Gain at 0º Unless Noted
AP-ANT-80 Mast Mount Omni	2.4-2.5 GHz	8.0 dBi	Vertical N-Male 36" pigtail	E-Plane – 13° H-Plane – 360°	25" x 1" 63.5 x 2.5 cm	20 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	270° 150° 150° 150° 150° 150° 150° 150° 15
AP-ANT-80D Direct Mount Omni	2.4-2.5 GHz	8.0 dBi	Vertical N Male Direct Mount	E-Plane – 13° H-Plane - 360°	19.5" x 0.75" 49.5 x 1.9 cm	50 watts Impedence - 50 Ω VSWR 1.7:1	-40° F to +158° F -40° C to +70° C	E-Plane Direction of Maximum Gain at 90° & 270°
AP-ANT-81 60 Degree Sector	2.4-2.5 GHz	8.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 60° H-Plane – 65°	6" x 6" x 1.25" 15.2 x 15.2 x 3.2 cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	270 207 3360 00 3360 0
AP-ANT-82 90 Degree Sector	2.4-2.5 GHz	12.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 10° H-Plane – 90°	3" x 26" x 1" 7.6 x 66 x 2.5 cm	50 watts Impedence - 50 Ω VSWR <2.0:1	-22° F to +149° F -30° C to +65° C	218° 118° 218° 118° 218° 118° 118°



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AP-ANT-83 90 Degree Sector	2.4-2.5 GHz	7.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 60° H-Plane – 90°	4.6" x 2.6" x 0.99" 11.8 x 6.8 x 2.5 cm	25 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	2300 00° 3300 00° 3300 00° 320
AP-ANT-84 135 Degree Sector	2.4-2.5 GHz	5.0 dBi	Linear N-Male 36" pigtail	E-Plane – 55° H-Plane – 135°	6" x 3" x 2" 15.2 x 7.6 x 5cm	50 watts Impedence - 50 Ω VSWR <1.5:1	-40° F to +158° F -40° C to +70° C	2287 1507 1507 2407 1507 1507 1507 1507 1507 1507 1507 15
AP-ANT-85 High-Gain Directional	2.4-2.5 GHz	15.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 29° H-Plane – 31°	10" x 10" x 1.5" 25.4 x 25.4 x 3.8cm	50 watts Impedence - 50 Ω VSWR 1.5:1	-22° F to +149° F -30° C to +65° C	278
AP-ANT-86 Mast Mount Omni	5.150 – 5.900 GHz	10.0 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 8° H-Plane – 360°	19.5" x 1" 49.53 x 2.54cm	10 watts Impedence - 50 Ω VSWR 2.0:1	-22° F to +149° F -30° C to +65° C	E-Plane Direction of Maximum Gain at 90° & 270°



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AP-ANT-86D Direct Mount Omni	4.900 – 5.875 GHz	10.0 dBi	Vertical, Linear N-Male Direct mount	E-Plane – 8° H-Plane - 360°	19.6" x 1" 49.6 x 2.54 cm	10 watts $\label{eq:local_problem} \mbox{Impedence - } 50 \ \Omega \\ \mbox{VSWR 2.0:1}$	-22° F to +149° F -30° C to +65° C	E-Plane Direction of Maximum Gain at 90° & 270°
AP-ANT-87 Mid-Gain Patch	2.4-2.5 GHz	7.0 dBi	Vertical, Linear		270			
	4.900 – 5.990 GHz	7.0 dBi	N-Male 36" pigtail	E-Plane – 60° H-Plane – 52°	4.1" x 4.1" x 1.5" 10.4 x 10.4 x 3.8 cm	Impedence - 50 Ω VSWR <2.0:1	-40° C to +70° C	270
AP-ANT-88 120 Degree Sector	4.990 – 5.900 GHz	10 dBi	Vertical, Linear N-Male 36" pigtail	E-Plane – 15° H-Plane – 120°	9.5" x 2.4" x 1" 24.1 x 6.1 x 2.5 cm	10 watts Impedence - 50 Ω VSWR <2.0:1	-22° F to +149° F -30° C to +65° C	210° 150° 150° 210° 150° 210° 150° 150° 150° 150° 150° 150° 150° 1



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AP-ANT-89 High-Gain Directional	5.150 - 5.350 GHz	14.0 dBi	Vertical, Linear	E-Plane – 30°	4.02" x 4.02" x 1.38"	50 watts	-40° F to +158° F	3107 3207 10 10 10 10 10 10 10 10 10 10 10 10 10
	5.470 - 5.875 GHz	13.25 dBi	Patch N-Male 36" pigtail	H-Plane - 30°	10.2 x 10.2 x 3.5 cm	Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	240° 120° 240° 120° 120° 120° 120° 150° 150° 150° 150° 150° 150° 150° 15
AP-ANT-90 Dual-Band Downtilt Diversity Omni	2.400 GHz 2.450 GHz 2.500 GHz	3.67 dBi 2.55 dBi 2.83 dBi	Downtilt Vertical, Linear N-Male Dual 36" pigtails	E-Plane – 57-61° H-Plane - 360°	6.16" v.0.90" v.2.66"	2 watts	400 E to 11500 E	
	4.900 GHz 5.150 GHz 5.550 GHz 5.990 GHz	5.14 dBi 4.10 dBi 3.32 dBi 3.31 dBi		E-Plane – 55-59° H-Plane – 360°	6.16" x 0.89" x 3.66" 15.65 x 2.26 x 9.3 cm	Impedence - 50 Ω VSWR <2.0:1	-40° F to +158° F -40° C to +70° C	



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AP-ANT-91 120 Degree Sector Dual-Band	2.4-2.5 GHz	5.0 dBi		E-Plane – 65° H-Plane - 120°	2.16" x 5.16" x 1.38"	5 watts	-40° F to +158° F	
0	4.900 – 5.875 GHz	5.0 dBi	Vertical, Linear	E-Plane – 65° H-Plane - 120°	5.49 x 13.11 x 3.51 cm	Impedence - 50 Ω VSWR <2.0:1	-40° C to +70° C	
AP-ANT-92 120 Degree Sector Dual-Band MIMO 3-Element Array	2.4-2.5 GHz	6.0 dBi	Vertical, Linear	E-Plane – 60° H-Plane - 120°	7.9" x 7.9" x 1.25"	50 watts	-40° F to +158° F	75 1970 2955 105 105 105 105 105 105 105 105 105 1
	4.900 – 5.875 GHz	5.0 dBi	3x N-Male 3x 30" pigtails	E-Plane – 75° H-Plane - 150°	20.1 x 20.1 x 3.2 cm	Impedence - 50Ω VSWR <1.7:1	-40° C to +70° C	15
AP-ANT-93 MIMO Antenna	5 GHz	14 dBi	Dual Slant +/- 45° Vertical	E-Plane – 20° H-Plane - 20°	305 x 305 x 15 mm	10 watts VSWR <1.7:1	-55° F to +65° F	



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AP-ANT-2418 18 dBi Panel (AP-85 only)	2.4 – 2.7 GHz	18 dBi	Vertical or Horizontal, Patch N-Male 12" and 36" jumper cables for direct mount to AP-85 or pole mount (pole mount kit included)	E-Plane – 20° H-Plane - 21°	12" x 12" x 0.6" 30.5 x 30.5 x 1.5 cm	30 watts $\label{eq:sum} \mbox{Impedence - } 50 \ \Omega \mbox{VSWR 1.5:1}$	-40° F to +158° F -40° C to +70° C	
AP-ANT-5016 16 dBi Panel (AP-85 only)	4.9 – 5.875 GHz	16 dBi	Vertical or Horizontal, Patch N-Male 12" and 36" jumper cables for direct mount to AP-85 or pole mount (pole mount kit included)	E-Plane – 19° H-Plane - 21°	5.9" x 5.9" x 1" 15 x 15 x 2.6 cm	30 watts $\label{eq:sum} \mbox{Impedence - } 50 \Omega \mbox{ VSWR 1.5:1}$	40° F to +149° F -40° C to +65° C	
AP-ANT-2x2-2005 2 Omni Antennas 2x2 MIMO Pair	2.4 - 2.5 GHz	5 dBi	Vpol: Linear, Vertical Hpol: Linear, Horizontal Both: N-type Female	Vpol: E-Plane – 30° Hpol: E-Plane – 25° Both: H-Plane - 360°	Vpol: 309 x 32 x 32 mm 140 g Hpol: 329 x 45 x 45 mm 260 g	Vpol: 50 watts VSWR <1.7:1 Hpol: 10 watts VSWR <2.0:1 Both: Impedence - 50 Ω	Operating: -30° F to +70° C Storage: -40° C to +85° C	200 210 210 210 210 210 210 210 210 210



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AP-ANT-2x2-5005 2 Omni Antennas 2x2 MIMO Pair	5.150 - 5.875 GHz	5.0 dBi	Vpol: Linear, Vertical Hpol: Linear, Horizontal Both: N-type Female	Vpol: E-Plane – 29° Hpol: E-Plane – 33° Both: H-Plane - 360°	200 x 25 x 25 mm 140 g	10 watts Impedence - 50 Ω VSWR <2.0:1	Operating: -30° F to +70° C Storage: -40° C to +85° C	213 200 205 20 20 20 20 20 20 20 20 20 20 20 20 20
AP-ANT-2x2-5010 2 Omni Antennas 2x2 MIMO Pair	5.150 - 5.875 GHz	10.0 dBi	Vpol: Linear, Vertical Hpol: Horizontal, Vertical Both: N-type Female	Vpol: E-Plane – 8° Hpol: E-Plane – 9.5° Both: H-Plane - 360°	Vpol: 490 x 25 x 25 mm Hpol: 451 x 25 x 25 mm	10 watts Impedence - 50 Ω VSWR <2.0:1	Operating: -30° F to +70° C Storage: -40° C to +85° C	230
AP-ANT-2x2-D607 60 Degree Sector Dual-Band MIMO 2-Element Array	2.4-2.5 GHz	7.0 dBi	Dual slant +/- 45 degrees 2x 30" pigtails	E-Plane – 50° H-Plane - 60°	7.9" x 7.9" x 1.25" 200 x 200 x 33 mm	20 watts Impedence - 50 Ω VSWR <1.8:1	-40° F to +158° F -40° C to +70° C	15 15 15 15 15 15 15 15 15 15 15 15 15 1
	5.15 – 5.875 GHz	7.0 dBi						155 45 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 15 156 156



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AP-ANT-2x2-D805 120 Degree Sector Dual-Band MIMO	2.4-2.5 GHz	5.0 dBi	Dual slant +/- 45 degrees 2x 30" pigtails	E-Plane – 70° H-Plane - 120°	7.9" x 7.9" x 1.25" 200 x 200 x 33 mm	20 watts $\label{eq:lower_state} \mbox{Impedence - } 50 \ \Omega \\ \mbox{VSWR < 1.8:1}$	-40° F to +158° F -40° C to +70° C	77 - 10 ⁷⁰ - 166 120 120 15 16 120 15 16 120 15 16 16 120 15 16 16 16 16 16 16 16 16 16 16 16 16 16
	5.15 – 5.875 GHz	5.0 dBi						75 19 196 196 196 196 196 196 196 196 196
AP-ANT-2x2-2714 70 Degree Sector 2 Element MIMO	2.400 – 2.483 GHz	14.0 dBi	Dual slant +/- 45 degrees Linear 2xN-type female	E-Plane – 23° H-Plane - 70°	306 x 306 x 25 mm 1,700 g	20 watts Impedence - 50 Ω VSWR <1.5:1	-45° C to +70° C	133 134 15 15 15 15 15 15 15 15 15 15 15 15 15
AP-ANT-2x2-5614 60 Degree Sector 2 Element MIMO	5.150 - 5.875 GHz	14.0 dBi	Dual slant +/- 45 degrees 2xN-type female	E-Plane – 14° H-Plane - 60°	10.63" x 4.06" x 1.38" 270 x 103 x 35 mm	50 watts $\label{eq:special_special} Impedence - 50 \Omega$ $\label{eq:vswr} VSWR < 1.8:1$	-40° F to +158° F -40° C to +70° C	60 72 80 100 120 113 60 72 80 100 122 135 60 72 80 100 122 135 60 72 80 100 122 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 100 120 135 60 72 80 120 135 60 72 80 120 135 60 72 80 120 135 60 72 80 120 120 135 60 72 80 120 120 135 60 72 80 120 120 135 60 72 80 120 120 120 120 120 120 120 120 120 12

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